

WHAT IS CLAIMED:

1. A gutter-cover clip for spacing a wall of a gutter from a gutter cover of the type in which a solid sheet has one longitudinal edge thereof formed into a curl and wherein the cover extends downwardly and outwardly from the lowermost edge of a roof so that said curl extends downwardly toward said gutter, said gutter-cover clip comprising:

a substantially flat body portion of a given thickness D; said body portion comprising a throat portion having first and second jaws thereof and shaped so that said throat portion is adapted to engage said curl of said cover;

said body portion further including a vertical gutter-engaging portion for engaging a vertical wall of a gutter and spaced from said throat portion by a given distance for maintaining a desired spacing between said wall of said gutter and said cover; and,

a vertical, apertured tab extending generally perpendicularly from said vertical, gutter-engaging portion and adapted to be affixed to said vertical wall of said gutter by a fastener.

2. The gutter-cover clip of claim 1 wherein said given thickness is between about 0.09 and 0.250 inches.

3. The gutter-cover clip of claim 2 wherein said given thickness is about 0.10 inch.

4. A gutter-cover clip for spacing a wall of a gutter from a gutter cover of the type in which a solid sheet has one longitudinal edge thereof formed into a curl and wherein the cover extends downwardly and outwardly from the lowermost edge of a roof so that said curl extends downwardly toward said gutter, said gutter-cover clip comprising:

a substantially flat body portion of a given thickness D; said body portion comprising a first throat portion having first and second jaws thereof and shaped so that said first throat portion is adapted to engage said curl of said cover;

third and fourth jaws and a second throat located therebetween, said second throat being adapted to engage said wall of said gutter between said third and fourth jaws; and,

at least a first locking lever adjacent said third jaw and joined to said body portion by a hinge, said first locking lever being adapted to be bent at said hinge to bring said third jaw into a locking position against said gutter.

5. The gutter-cover clip of claim 4 including a bending slot in said body portion, said bending slot being located above said second throat so that said hinge is between said second throat and said bending slot and having a width D3 whereby a force applied to said bending slot moves said locking lever about said hinge so that said third jaw is brought into locking engagement with said wall of said gutter.

6. The gutter-cover clip of claim 5 wherein the thickness of said hinge D3 is between about 1/16 inch and 7/64 inch.

7. The gutter-cover clip of claim 6 wherein the thickness D3 is preferably about 3/32 inch.

8. The gutter-cover clip of claim 6 wherein the ratio of the hinge width D3 to the thickness D of said body portion is between about 0.25 and 1.2 inch.

9. The gutter-cover clip of claim 8 wherein the ratio of D3 to D is preferably about 0.94 inch.
10. The gutter-cover clip of claim 5 including a locking slot for accommodating a locking-unlocking tool for selectively pivoting said locking lever about said hinge and into a lock or unlocked position.
11. The gutter-cover clip of claim 5 including a recess in said third jaw for accommodating an unlocking tool for pivoting said locking lever about said hinge to move said third jaw out of engagement with said gutter.
12. The gutter clip of claim 4 wherein at least one of said jaws is serrated.
13. The gutter-cover clip of claim 4 including fifth and sixth jaws and a second locking lever adjacent said fifth jaw and joined to said body portion by a second hinge, said second locking lever being adapted to be bent at said second hinge to bring said fifth jaw into a locking position against a vertical wall of said gutter.
14. The gutter-cover clip of claim 13 including a third throat portion between said fifth and said sixth jaws and wherein the shortest distance D4 between said first throat and said third throat is between about 1/8 and 7/16 inch.
15. The gutter-cover clip of claim 14 wherein the distance D4 is preferably about 5/16 inch.

16. The gutter-cover clip of claim 4 wherein at least one of said third or fourth jaws is serrated.
17. The gutter-cover clip of claim 4 wherein said clip is adapted to lock onto a vertical-gutter wall portion and wherein said third and fourth jaws are essentially parallel to said vertical gutter wall.
18. The gutter-cover clip of claim 17 including a bending slot 96 in said body portion located adjacent said third jaw 94 so that said hinge 93 is between said third wall 94 and said bending slot 96 whereby a force applied to said bending slot 96 moves said locking lever 92 about said hinge so that said third jaw 94 is brought into locking engagement with said vertical wall of said gutter.
19. The gutter-cover clip of claim 4 including a third throat and wherein a second hinge having a width D2 is formed between said third throat and said third jaw, said second hinge and wherein the width D2 of said second hinge is between about 1/16 inch and 5/32 inch.
20. The gutter-cover clip of claim 19 wherein D2 is preferably about 3/32 inch.
21. The gutter-cover clip of claim 19 wherein the ratio of the hinge-width D2 to the thickness D of said body portion is between about 0.25 and 1.2 inch.
22. The gutter-cover clip of claim 21 wherein the ratio of D2 to D is preferably about 0.94 inch.

23. The gutter-cover clip of claim 4 wherein said body portion is comprised of a bendable metal.

24. The gutter-cover clip of claim 4 wherein the deepest part of said first throat and the deepest part of said second throat lie essentially in a common plane.

25. A gutter-cover clip for spacing a wall of a gutter from a gutter cover of the type in which a solid sheet has one longitudinal edge thereof formed into a curl and wherein the cover extends downwardly and outwardly from the lowermost edge of a roof so that said curl extends downwardly toward said gutter, said gutter-cover clip comprising:

a substantially flat body portion of a given thickness D; said body portion comprising a first throat portion having first and second jaws thereof and shaped so that said first throat portion is adapted to engage said curl of said cover;

third and fourth jaws and a second throat located therebetween, said second throat being adapted to engage said wall of said gutter between said third and fourth jaws:

at least a first locking lever adjacent said third jaw and joined to said body portion by a first hinge, said first locking lever being adapted to be bent at said first hinge to bring said third jaw into a locking position against said gutter;

a bending slot in said body portion located above said second throat and wherein the ratio of the distance D6 between said first throat and said bending slot to the thickness of said hinge D5 is between about 1.1 and 2.0.

26. The gutter-cover clip of claim 25 wherein said ratio of D6 to D5 is preferably about 1.5.

27. The gutter-cover clip of claim 25 wherein the ratio of the hinge width D2 to the thickness D of the body portion is between about 0.25 and 1.2.
28. The gutter-cover clip of claim 27 wherein the ratio of the width of said first hinge to D is preferably about 0.94.
29. The gutter-cover clip of claim 25 including fifth and sixth jaws and a third throat located therebetween, said third throat being adapted to engage a vertical wall of said gutter between said fifth and sixth jaws;
a second locking lever formed between said fourth and fifth jaws and joined to said body portion by a second hinge, said second locking lever being adapted to be rotated so that said vertical wall of said gutter is engaged between said fifth and sixth jaws.
30. The gutter-cover clip of claim 29 wherein the width D7 of said second hinge is preferably about 11/128 inch.
31. The gutter-cover clip of claim 29 wherein the distance between the first and second throats is D8 and the width of said second hinge is D7 and the ratio of D8 to D7 is between about 1.1 and 2.0.
32. The gutter-cover clip of claim 31 wherein said ratio of D8 to D7 is preferably about 1.5.
33. The gutter-cover clip of claim 25 wherein the width of said first hinge is between about 1/16 and 3/32 inch.

34. The gutter-cover clip of claim 25 including a bending slot in the body portion in said body portion above said second throat so that said first hinge is between said second throat and said bending slot and wherein the width D6 is the shortest distance between said first throat and said bending slot and such that said third jaw clamps onto said wall of said gutter upon insertion and rotation of a bending tool in said bending slot.

35. The gutter-cover clip of claim 34 wherein the width D6 is preferably about 15/128 inch.

36. The gutter-cover clip of claim 34 wherein the ratio of the width D6 to the width D5 is between about 1.1 and 2.0.

37. The gutter-cover clip of claim 36 wherein the ration of D6/D5 is preferably about 1.5.

38. The gutter-cover clip of claim 25 wherein the distance D8 between said first throat and said second throat is preferably about 19/128 inch.